

PATENT COOPERATION TREATY

④ AG

From the INTERNATIONAL SEARCHING AUTHORITY

PCT

To:

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RECEIVED

29 SEP 2008

FILE No. 42454

G.E. EHRLICH (1995) LTD

INVITATION TO PAY ADDITIONAL FEES
AND, WHERE APPLICABLE, PROTEST FEE
(PCT Article 17(3)(a) and Rule 40.1 and 40.2(e))

Date of mailing
(day/month/year) 18/09/2008

Applicant's or agent's file reference
42454

PAYMENT DUE
within **ONE MONTH** from
the above date of mailing

International application No.
PCT/IB2008/050946

International filing date
(day/month/year) 14/03/2008

Applicant

EPOS TECHNOLOGIES LIMITED

1. This International Searching Authority

- (i) considers that there are 2 (number of) inventions claimed in the international application covered by the claims indicated on an extra sheet:
- (ii) therefore considers that **the international application does not comply with the requirements of unity of invention** (Rules 13.1, 13.2 and 13.3) for the reasons indicated on an extra sheet:
- (iii) ☒ has carried out a partial international search (see Annex) ☐ will establish the international search report on those parts of the international application which relate to the invention first mentioned in claims Nos.:
see extra sheet
- (iv) will establish the international search report on the other parts of the international application only if, and to the extent to which, additional fees are paid.

2. Consequently, the applicant is hereby invited to pay, within the time limit indicated above, the amount indicated below:

EUR 1.700,00 x 1 = EUR 1.700
Fee per additional invention number of additional inventions currency/total amount of additional fees

- 3. The applicant is informed that, according to Rule 40.2(c), the payment of any additional fee may be made under protest, i.e., a reasoned statement to the effect that the international application complies with the requirement of unity of invention or that the amount of the required additional fee is excessive, where applicable, subject to the payment of a protest fee.**
Where the applicant pays additional fees under protest, the applicant is hereby invited, within the time limit indicated above, to pay a protest fee (Rule 40.2(e)) in the amount of EUR 750,00 (currency/amount)

Where the applicant has not, within the time limit indicated above, paid the required protest fee, the protest will be considered not to have been made and the International Searching Authority will so declare.

- 4. ☐ Claim(s) Nos. _____ have been found to be unsearchable under Article 17(2)(b) because of defects under Article 17(2)(a) and therefore have not been included with any invention.**

Name and mailing address of the International Searching Authority

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Authorized officer

Rosa Poquet

**Annex to Form PCT/ISA/206
COMMUNICATION RELATING TO THE RESULTS
OF THE PARTIAL INTERNATIONAL SEARCH**

International Application No
PCT/IB2008/050946

1. The present communication is an Annex to the invitation to pay additional fees (Form PCT/ISA/206). It shows the results of the international search established on the parts of the international application which relate to the invention first mentioned in claims Nos.:
- see 'Invitation to pay additional fees'
2. This communication is not the international search report which will be established according to Article 18 and Rule 43.
3. If the applicant does not pay any additional search fees, the information appearing in this communication will be considered as the result of the international search and will be included as such in the international search report.
4. If the applicant pays additional fees, the international search report will contain both the information appearing in this communication and the results of the international search on other parts of the international application for which such fees will have been paid.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	TW 235 010 B (TAIWAN CAROL ELECTRONICS CO LT [TW]) 21 June 2005 (2005-06-21) figure 2	1-36
A	US 2005/077102 A1 (BANTER CHAD A [US] ET AL) 14 April 2005 (2005-04-14) paragraphs [0001] - [0007], [0052], [0053]; figures 1a, 1b	1, 24-30
A	NEUMANN J J ET AL: "CMOS-MEMS membrane for audio-frequency acoustic actuation" SENSORS AND ACTUATORS A, ELSEVIER SEQUOIA S.A., LAUSANNE, CH, vol. 95, no. 2-3, 1 January 2002 (2002-01-01), pages 175-182, XP004377889 ISSN: 0924-4247 pages 175, 182	3-19

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

**Annex to Form PCT/ISA/206
COMMUNICATION RELATING TO THE RESULTS
OF THE PARTIAL INTERNATIONAL SEARCH**

International Application No
PCT/IB2008/050946

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>JUNGE S ET AL: "Simulation of capacitive micromachined ultrasonic transducers (cMUT) for low frequencies and silicon condenser microphones using an analytical model"</p> <p>2003 IEEE ULTRASONICS SYMPOSIUM PROCEEDINGS, HONOLULU, HAWAII, OCT. 5 20031005; 20031005 - 20031008 NEW YORK, NY : IEEE, US, vol. 1, 5 October 2003 (2003-10-05), pages 485-488, XP010701172 ISBN: 978-0-7803-7922-0 page 487</p>	3-19
A	<p>WO 2007/004119 A (KONINKL PHILIPS ELECTRONICS NV [NL]; PHILIPS INTELLECTUAL PROPERTY [DE] 11 January 2007 (2007-01-11) page 14, lines 4-19; figures 8,9</p>	3-19
A	<p>JIAN CAI ET EL: "A Study on Packaging of PZT MEMS Microphone"</p> <p>2005 ELECTRONICS COMPONENTS AND TECHNOLOGY CONFERENCE, LAKE BUENA VISTA, FL, USA, [Online] - 3 June 2005 (2005-06-03) pages 1077-1080, XP002488699 piscataway, NJ, USA, IEEE ISBN: 978-0-7803-8907-6 Retrieved from the Internet: URL:http://ieeexplore.ieee.org/iel5/9844/31024/01441405.pdf> the whole document</p>	22,23, 33,36

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-36

MEMS microphone comprising a mesh covering the open front side of the case.

2. claims: 37-68

Acoustic positioning system comprising a receiver which makes use of two MEMS microphones sensitive to ultrasound waves

This Authority considers that there are two separate inventions covered by the claims indicated as follows:

Group 1: Claims 1-36, directed to a MEMS microphone comprising a mesh covering the open front side of the case.

Group 2: Claims 37-68, directed to an acoustic positioning system comprising a receiver which makes use of two MEMS microphones sensitive to ultrasound waves.

The groups of claims are not linked by common or corresponding special technical features and define two different inventions not linked by a single general inventive concept. Thus, the application does not meet the requirements of unity of invention as defined in Rules 13.1 and 13.2 PCT.

Patent Family Annex
Information on patent family members

International Application No
PCT/IB2008/050946

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
TW 235010	B	21-06-2005	NONE	
US 2005077102	A1	14-04-2005	CN 1883242 A	20-12-2006
			EP 1685740 A2	02-08-2006
			JP 2007510326 T	19-04-2007
			KR 20060085958 A	28-07-2006
			WO 2005039234 A2	28-04-2005
WO 2007004119	A	11-01-2007	KR 20080023313 A	13-03-2008